

	arch	Similarity	100.0%	Score 1764:	DB 11:	length 1764:
	1764:	Conservative	0:	Mismatches	0:	Gaps
1	ATGCGCGCGTCGAGACGGCGCGCCCGCCGCCACGCGGCACCTCTGTATCTTCCTGCTACCC	60				
1	ATGCGCGCGTCGAGACGGCGCGCCCGCCGCCACGCGGCACCTCTGTATCTTCCTGCTACCC	60				
61	ACCGCTAGAAAAGCCGTTGGTGTTGTGTTGCTTACGCCGGCGCGGCACAGCGGAGACC	120				
61	ACCGCTAGAAAAGCCGTTGGTGTTGTGTTGCTTACGCCGGCGCGGCAGCGGAGACC	120				
121	TGGCGGAAAGACGAGAGTTCCTGCTGGCGGTGGTGGGATTTCCAGTGGATCTTGGTAAC	180				
121	TGGCGGAAAGACGAGAGTTCCTGCTGGCGGTGGTGGGATTTCCAGTGGATCTTGGTAAC	180				



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Db 535 GGAAGCGGAGACCTGGGGCAAGAAGTGATTCCTCTCTCAGTGTATGGTATGCTG 594
Oy 167 TGGATCTTGGTAAGCTGTGGGATTCCTCCCTACATCTGTACCAGAAATGAGCGGTGCT 226
Db 595 TGGACCTGGGGAATGTGGCGTCCCTCCCTACATATGTTACAGAAATGAGGGGGGAT 654
Oy 227 TCCGATACCCCTTACGTGCTATGTGCTGTGGGGGCTCCCGCTGTCTTCCCGAAC 286
Db 655 TCCCTCCCTCCCTACACCATCATATGGCCATTTTGGGGGAATCCCGCTCTTTACATGAGC 714
Oy 287 TGGCGCTGGGCGAGTACCACCGCTGGCGGCTCCCTACTCTCTGGAACGATCCCGC 346
Db 715 TCGCACTTGGGAGACACCGAAATGGATTTCAATATGAGGAAATCTCCCGA 774
Oy 347 CGCTAAAGGTGGGCTATGCCATCTGCATGATGCAATCATACATGGGCAATGTACTCA 406
Db 775 TTTTCAAGGATGTGATGCTATGCATCATATGCTTTTACATCTCTCTACTACATA 834
Oy 407 ACAGATCATGAGATGGGCGGTATTTACTGATCGCTTCTCTCGCTCTATAACTCTG 466
Db 835 ACACATCATGAGCGCGGGCGGTATTTACTCATCTATCTCTCTCTGACGACGCGCT 894
Oy 467 TGTGCTCATGACCACTGCGACAAGAGTGAACACCGCGCTGCAAGCGCGTCACT 526
Db 895 GGACCAAGCTGCAAGAACTCTGGAACACTGCAACCAATTAATCTCTCCGAGACA 954
Oy 527 CACCTCAGACTAATCTTACTCTCTCTACCGGCAAGAGGTCTTGAAGTATGTAT 586
Db 955 ACATCATCTGGAACCTTCATTTCCAGCTCCCTGCGAAGAAATTTTACAGCGCCACGTC 1014
Oy 587 TGGAGCAGACAGTCTAAGCGCCCTGATGATGACATGAGGCGCATCAAGCGCTGCGTC 646
Db 1015 TGCAGATCACCAGGCTTAAGGGGCTCAAGAACCTGGGGGCAATGCGGAGCTGGGCC 1074
Oy 647 TGTGTGTGTGGGGCTTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 706
Db 1075 TCTGATCATCTGATCTTCTACTGTATTTACTCTCTGAGATCTGGAAGCGTCAAGCT 1134
Oy 707 CTGCAAGTGTGTGGGTGAGAGCTTGGCCCGCTACGTGGTGTGATGTCTGCTGG 766
Db 1135 CTGCAAGTGTGTGGGTGAGAGCTTGGCCCGCTACGTGGTGTGATGTCTGCTGG 1194
Oy 767 CGAAGCGGTACGCTTCCAGAGGAGGAGGAGCATAGCTACTACTTACCTTACCCAGAT 826
Db 1195 TGAGGGGTGCCACCTCCCTGAGGCTGAGAGGGGTCTCTCTCTCTCTCTCTCTCTCTCT 1254
Oy 827 GGCACAATTTGCAAACTCTAAGGTATGATGATGAGCGGCACTCCAGATTTTCTTCTGC 886
Db 1255 GGCAGAAACTCTCTGAGACAGGGGTGTGATGATGACAGCGCTCAGATCTTCTCTCTC 1314
Oy 887 TCGGTCGGGGGTGGGAACCTTACTGGGCGCTCCAGTACACAAGTTCACAACACT 946
Db 1315 TTGGTCGGGGCTTTGGGCTCTGCTGGCTTTTGGCTGAGTACACAAGTTCACAACACT 1374
Oy 947 GCTACAGGAGCGGCTCATCTCTTCTATCACTGCTTCACTGCTTCTCTCTCTCTCTCT 1006
Db 1375 GCTACAGAGATGCCCTGTGACACAGCGTGTGAATGATGATGAGCGCTTCTCTCTCTCT 1434
Oy 1007 TCTGCTATTTCTCGCTTTTGGGTGATGAGCGGCACTTCAAGACAAGACATCGAGAGC 1066
Db 1435 TTGTCTATCTTCACTGCTGTGATGAGGTGTGAATGAGGATGATGATGATGATGATG 1494
Oy 1067 TTGGG ---CTGGAAGGCGCTGAGCTGTGATGATGATGATGATGATGATGATGATG 1123
Db 1495 TGGCCAAAGAGCGAGGCTCCAGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1554
Oy 1124 TGACGCGCTCGGTGTGTGGGCAATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1183
Db 1555 TGGCAGCGTCACTTTCTTGGCAATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1614
Oy 1184 ACAGTACTTTTGGAGGCTTGAAGGCACTACAGCGCTTTTGGACAGATATCTCTCGAG 1243
Db 1615 ACAGCACTTTGCAAGCTTGGAGGGGTGATCAGCGCTGTGCTGATGATGATGATGATGATG 1674

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Oy 1244 TGTTAGCGACATCGGCAATATTGTGSGCTGACTGCTTCTGTTCATATATTTCG 1303
Db 1675 TGTGGGCCAAGCGCGGGAGGGGTTCGTCGCGCTGTATATACATCGCTTCTTGGAT 1734
Oy 1304 CTGTCGCCACCAACACATATGAGTGTGTATACCTTCGTAGACCTACTCAATGTATAGCC 1363
Db 1735 CCTGTGTACCTTACTTGTGAGGGGCTACGTGTGTAACTGTGTGAGAGATAGTCA 1794
Oy 1364 CTGATTTGGCATTTCTATTTCTGTATTTGCTGAGGCTGCGGGGTGTCTGTGTATG 1423
Db 1795 CGGGCCCCGAGAGTGTCTACTGTGCGCTGATATGAAAGCATGTGTGTGTGTGTGTATG 1854
Oy 1424 GCGTGCAGCGGTTCCTGAACATGTGAGACCATATGSGGACACACCTGATGATGCT 1483
Db 1855 GCATCACTGATTTCTGACAGGAGCTGAAGAAATGCTGGCTTCAAGCCGGGGGTGTCT 1914
Oy 1484 GGAGACCTGTGTGTCTTACATCAATGCTCCGTATTTCTGTGTGTGTGTGTGTGTCTCG 1543
Db 1915 GGAGATCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1974
Oy 1544 TTTGCGCACAGAGAGATGCTGCGCGGGGAAATACCTATTCCTCATATGCTATACCG 1603
Db 1975 TGATGAGCCCGCACACTAGACTTTTCCAAATATTAATTAATTAATTAATTAATTAAT 2034
Oy 1604 TAGGCTGGGTATGACCGGCAACCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1663
Db 2035 TGGCTTACTGATAGGAACCTTATTTTCAATTTTGTATCCCAATATATATGCTTATGCT 2094
Oy 1664 TGTCTCATCTCTCTGGAATTTGCATCAACCGCATCAAGCA 1705
Db 2095 TGATCATCATCTCCAGGACATTTAAAGAGCGTATATTAATA 2136

RESULT 3
US-10-213-948-4
; Sequence 4, Application US/10213948
; Publication No. US20030100479A1
; GENERAL INFORMATION:
; APPLICANT: SmithKline Beecham
; TITLE OF INVENTION: Gene Polymorphisms and Response to Treatment
; FILE REFERENCE: P04541
; CURRENT APPLICATION NUMBER: US/10/213,948
; CURRENT FILING DATE: 2002-08-07
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 3946
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-213-948-4

Query Match 28.6%; Score 504.6; DB 15; Length 3946;
Best Local Similarity 59.2%; Pred. No. 1.8e-145;
Matches 943; Conservative 0; Mismatches 629; Indels 21; Gaps 4;

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Db 533 CCCCCTACTGAAAGGTGGGCTTACGGTATCTCTACATCTCATGTATGTCGGCTCTT 592
Oy 442 CTACAAACAGATCATGCGATGGGCGTGTATTACTGATCGCTTCTCGCGCTATATAA 461
Db 533 CTACAAAGCTCATGCGCTGGGCGTCTCATATCTCTCTCTCTCTCTCTCTCTCTCT 652
Oy 462 CTCTGTGCTGGCATGGACAGCTGGGACAGAGTGAAC--ACGGCGCTGTGCAGCGCG 520
Db 653 CCCCCTGATCCACATGCACTCCTGGAACAGCCCACTGCTGGATGCCCATCTCTGG 712
Oy 521 TCACCTCACTTCAGACTATCTTAATCTT-----TCACACCGCGCGAAGA 566
Db 713 TGACTCCAGTGGAGACAGCTCGGCGCTCAGCACACTTTGGAGCACACCTGCTGCCGA 772
Oy 567 GTCTCTGAGCATATGATTTGGAGACAGACAGCTTAAGCGCTTGATGATGAGCGGC 626
Db 773 GTACTTTAAGAGTGGCGTGGCTGACCTTCACCGAGGCAATGGCATGAGACACTGGGCG 832
Oy 627 GATCAAGCCGTCGCTGCTGTGTGTGCTGGGCGCTTTGCTGCTGCTACTCTCTCT 686
Db 833 TCCGGGGTGGGAGCTCAGACGCTGCTGTGTGTGCTGCTGCTGCTGCTGCTGCTGCT 892
Oy 687 GTGAAGAGTCAAGAGCTGCTGCGAGAGTGTGTGCTGAGAGCTTGGCCCGCTAGCT 746
Db 893 CTGGAAGGCGTGAAGAGCTCAGGGAAGGTGTGTGTGATGATCAGACGACCATGCTAGCT 952
Oy 747 GGTGCTGCTGATTTCTGCTGGGAGAGGCGTCAAGCTTCAGAGGAGGAGGAGGATAG 806
Db 953 GGTCTCTACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1012
Oy 807 CTACTACTTACCCAGAGTGGCACAAATTCGAAAATCTTAAGTATGATGATGAGCGCG 866
Db 1013 AGCATACTGAGAGCTTACTTCTACCGGCTCTGCGAGGCGTCTGTTGGATTTGAGCGGCG 1072
Oy 867 ATCCCAATTTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 926
Db 1073 CACCCAGGTGTGCTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1132
Oy 927 CAACAAGTTTCAACACACTGCTACAGGAGCGGCTCATCTTCTTATCAATGCTT 986
Db 1133 CAACAAGTTTCAACACACTGCTACAGGAGCGGCTCATCTTCTTATCAATGCTT 1192
Oy 987 GACCAAGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1046
Db 1193 GACGAGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1252
Oy 1047 GAACAAGAGCATGAGAGGTTGGCTTGAAGGCCCTGAGCTGCTTCTATCTGTTACCC 1106
Db 1253 CAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1312
Oy 1107 CGAGGCGCATGCGCATGAGACCGGCTCGTGTGTGGGCGATCATCTTCTCTCTGCT 1166
Db 1313 GGAAGCGCATGCGCATGAGACCGGCTCGTGTGTGGGCGATCATCTTCTCTCTGCT 1372
Oy 1167 TATTACCTGAGACTTGAAGTATTTTGAAGGCTTGAAGGAGTCAACACGCGCTTTG 1226
Db 1373 GCTCAACCTGGGATTCAGACGCGCATGCTGCTGATGAGTCAAGTACACGCGCTCAT 1432
Oy 1227 CGAGCAATATCTGAGTGTGAGGACAGATCGGAGATATTTGCTGCTGATGCTTCT 1286
Db 1433 CGATGAGTTTCAGC---TGCTGACAGACACCGGAGCTTTCAGGCTCTTCATCTGCT 1489
Oy 1287 GTTCATCTATATTTGCGCTTGGCCACACACATAGGAGTGTGATATCTCGTAGACT 1346
Db 1490 GGGCAGCTTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1549
Oy 1347 ACTCAATGTATGAGCGCTGAGATTTGCGATTTCTATTCGTATTTGCTGAGCGCTGG 1406
Db 1550 CCTGAGACATTTTGGAGCGGCGAGTCCATCTCTTTGAGATGCTCATGAGACCATGG 1609
Oy 1407 CGTGCTGCTGATGAGGCTGAGACCGGCTTCTGAAGATGTGAGGACATGCTGGGCA 1466
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Db 1610 AGTGCGCTGTTCATATGCTGTTGGGCACTTCAGGACAGATCCAGACAGATGACGGGCA 1669
Oy 1467 CACCCCTGATGCTTCTGAGAGACTGTTGGCTTACTCATGTCGCCGATTTCTGCTGCT 1526
Db 1670 GCGGCGCAGCTGTACTGCTGCGGCTGTGCTGAGAGCTGCTGAGCCCTGCTTCTGCTG 1729
Oy 1527 GCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1586
Db 1730 CGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1789
Oy 1587 CTGATGCTATTCACCGTAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1646
Db 1790 CGAGTGGGCGCAACCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1849
Oy 1647 TTACATTTATCAAACTGCTCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1679
Db 1850 CTATGCGGCTTACAACTTCTGCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1882
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## RESULT 4

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US-09-843-598-1
; Sequence 1, Application US/09843598
; Patient No. US2002010944AI
; GENERAL INFORMATION:
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Ranganathan, Rajesh
; TITLE OF INVENTION: GEFERT GENES, PROTEINS, AND MODULATORY
; FILE REFERENCE: 01997/525002
; CURRENT APPLICATION NUMBER: US/09/843, 598
; CURRENT FILING DATE: 2001-04-26
; PRIOR APPLICATION NUMBER: US 60/200,549
; PRIOR FILING DATE: 2000-04-26
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2016
; TYPE: DNA
; ORGANISM: Caenorhabditis elegans
; US-09-843-598-1
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Query Match 22.1%; Score 389.8; DB 10; Length 2016;

Best Local Similarity 55.0%; Pred. No. 5.1e-110;

Matches 882; Conservative 0; Mismatches 702; Indels 21; Gaps 5;

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Oy 112 CGCGAGACCTGGGCGAAGAGGACAGATCTCTGCTGGGCGTGGTGGCATTTGGCAGTGGAT 171
Db 298 CGTGATTAATGGGCAACTAAATGGAATTCCTGTTGGCGCTGCTGATGATGCACTTGTAT 357
Oy 172 CTGCTAAGCTGTGGCGATTCCTCTACATCTGTTACCGAATGAGGCGGCTGCTCTCT 231
Db 358 TTGGTATATATATGCGCATTTCCATCACTAGTATGATACAAACAGGCTGGCGGCTTTCTT 417
Oy 232 ATCCGCTACTCGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 291
Db 418 ATTCATATTTCAATTAATGTAATGATCGGAGAGCTTCCATGCTTATATGAACTTGTA 477
Oy 292 CTGGGCGAGTACCAACCGTGGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 351
Db 478 CTGGGCAATTTCAATCGGCTGAGATGCTGTAATGTAATGGAAGAGTGTGCTGCTT 537
Oy 352 AAAGGTGCGCTTGTGCGATTCGATGATGATGATGATGATGATGATGATGATGATGAT 411
Db 538 CGAGGAATCGTTACGATGCTGCTGATTTTGGACAGTTCAATGACATTTTCTATATGCG 597
Oy 412 ATCATCGATGAGGCGGTATATTCCTGATCGCTTCTCTGCGCTGAT---AAACTCTGTG 468
Db 598 ATCATCGATGAGGCGGTATTTTGTATGTTTACATTTCAAAATTTGGGATTTCCGAA 657
Oy 469 CTGCGATGAGACCTGCTGAGCAACAGATGGAACAGCGCGCTGTGACAGCGG----- 519
Db 658 GTTCGCTGGGCGTATGCTGAGCAATCGTGAATACACCGAGATGCTCAGATGACCTCAAC 717
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QY	700	AGGAGTCGTGGCAAGGTCGTGGGTGACACTCTGGCCCGCTGACGTGCTCTCATTT	755
Db	898	CAGTCGTCTGGAAAAATTGTTGGGTGACTCAACAGCTCCATATATATTTCTAAGTAT	957
QY	760	CTGCTGGCGAAGAGGCGCTCACCTCTCCAGAGACGACGAGGCGCATACGCTTACTTACC	819
Db	958	CTTCTTATACGTGGACTTCTTCTTCTGTGGACCAAGAATGGTCTCTTATTATATGTGACA	1017
QY	820	CCAGAGTGGCAAAATTCGAAAACCTTAAGTATGTGATTGACGGCGCATCCAGATTTCG	879
Db	1018	CCGGATTTTCGAGAAACCTCAAGATTCCTCACTAATGTGTGGCTGGCTGACACAAATTTTC	1077
QY	880	TTTCTGCTCGGACCCGGGTGGGAACCTTACGGGGGCTCTCAGTATCAACAAGTCAAC	939
Db	1078	TTTCTACTTGGACACAGGATTTGGGGGTGCTGCTCGCGCTGACAGCTTACAAATGATTTTAC	1137
QY	940	AACAACCTGCTACAGGAGCGCGCTCATCTACTTCTTATCAACTGCTTGACCAGCTTCCTT	999
QY	1138	AATAACCTGCTATCGTAGCGCGCTACGCTATCTCATCATTAATTAAGTGGCAAGCTCATTTCTT	1197
Db	1000	GCTGTTTCGTCATTTTTCGCTTTTGGGGTATACGGCGACGTTGACAGACA--GAGC	1056
QY	1198	TCCGGATGTGTTGATATCTCTACACTTGGCTATATGTCTCTTCCACCAATAAACCGATTT	1257
QY	1057	ATCGAGAGGTGTGGCTCGAAGGCCCTGAGCCGGGTGTCATCGTATACCCGAGAGCATC	1116
Db	1258	AATGAGGTAGTTGGAGAACAGACGCGCTCTTAATCTTCAATGCTTACCCCAAGCCCTC	1317
QY	1117	GCCACCATGACCGGCTCGGTCTGCGGCATCATCTTCTTCATGACTTATTACCTG	1176
Db	1318	GCACCAATGAGATTACAGTTGTTGCTTTCGCTTCACTTTTCGTCATCTAATCACTCTT	1377
QY	1177	GGACTTGCATGACTTCTTGGAGTCTTATAGGACATGACACAGGCTCTTGGAGGAATAT	1236
Db	1378	GGAATCGACTCCACTTTTGTGTGAAATCGAATCATTAACAGGGAATTCGTGATGAGT--	1435
QY	1237	CCTGAGAGTGTAGGACAGACATCGGGAATATTTGTAGCTTACTGCTCTGTTCATCAT	1296
Db	1436	-CGAGGTTTTGTGAAAAATCGAAAAATGTTGCTGCTGCTGATTTGGATCATTTATTAC	1494
QY	1287	ATTTCGCTCTGCCCCACCAACCATACGGTGTGATATCTCTGTAGACCTTACTCAATGTG	1356
Db	1495	TTCTCTACACTTCCCGCTATCAGCATGTGCTGAATTCGTAATCCGTTCCCTGATGAA	1554
QY	1357	TATGGCCCTGGATTGGCGATCTCTATCTGCTGATTTTGGTGAAGGCTGGCGGGCTGGTG	1416
Db	1555	TATGGAGTTTCTTATCATGTTCTGTTCAATGTACCTGCGAATGATTTGACGTCTGGG	1614
QY	1417	GTTATGGCGTCGACCGGTTCTCTGAAATGTGAGACCAACGCTGGGGACACCCCTGGA	1476
Db	1615	TTTTACGGTGTGATCACTTCTCAAAAATATTGCTGTATGCTGGGATTTCTATCTCGGA	1674
QY	1477	TGCTTTGGAGAGACTGTG--GCTTATCATATGTCCTGATTTCTGCTGCTGTTC	1533
Db	1675	ATTTATTTGAGAGTCTGCTGACGCTGTCTCCGGTTTTTATTAAGTGTGATATTCATATG	1734
QY	1534	GTTTCTCGCTTCTGGACACAGGAGATGTGCGGGGGAATACACTATCCCTCATG	1593
Db	1735	ACTGTCTACAAATAGTTCGTTCAAGCAATTTAAATGGCTAGCTACACTTCCCTGGGG	1794
QY	1594	TCTATACACCGTAGCGTGGTATGATACCGGACCAACGCTGTCATCATCTCTTATCAT	1653
Db	1795	AGTGTATTTTGGGTGGTCTCTGAGACTTCTCTCAGTCTTCGGAATTTCTGTCTTGCA	1854
QY	1654	ATTCACAAAGCTCTCATCATCTCTGGCAATTGATTCACACCGCATC	1698
Db	1855	ATAATCTACTGCTCAGCGGTACCGGCACACTTACGAACGCTTC	1899

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1 Patent No. US20020010944A1
2
3 GENERAL INFORMATION
4
5 APPLICANT: Horvitz, H. Robert
6
7 APPLICANT: Rasmussen, Rajesh
8
9 TITLE OF INVENTION: CSEB7 GENES, PROTEIN
10
11 TITLE OF INVENTION: COMPOUNDS
12
13 FILE REFERENCE: 01997/525002
14
15 CURRENT APPLICATION NUMBER: US/09/843,598
16
17 CURRENT FILING DATE: 2001-04-26
18
19 PRIOR APPLICATION NUMBER: US 60/200,549
20
21 PRIOR FILING DATE: 2000-04-26
22
23 NUMBER OF SEQ ID NOS: 14
24
25 SOFTWARE: FastSeq for Windows Version 4.0
26
27 SEQ ID NO: 3
28
29 LENGTH: 2016
30
31 TYPE: DNA
32
33 ORGANISM: Caenorhabditis elegans
34
35 US-09-843-598-3

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Query Match	22.1%	Score 389.8	DB 10	Length 2016
Best Local Similarity	55.0%	Pred. Nc.5.1e-110		
Matches	882	Conservative	0	Mismatches 702; Indels 21; Gaps 5
QY	112	CGCGAGACCTGGCGGCAAGAGGCAAGTCTCCGCTGGGGGTGGTGGAGATTCGACATGGAT	171	
Db	298	CGTGAATAATGGGCACATAAATGSAATTCCTGTTGGCGCGTCTGGATATACACTGAT	357	
QY	172	CTTGGTAACGTGTGGCGATTCCTCCCTACATCTGTATCCAGAAATGAGCGGGTCCGTTCTG	231	
Db	358	TTGGGTATATATGGCGATTCCTCCATCAGATATCTCAAAACACGGTGGCGGCTCTTTTCAT	417	
QY	232	ATCCCGTACTCGGTATATGCTGCTGTTTGGCGGCGCGCGCTGTTCTCTCGAATGCGG	291	
Db	418	ATTCATATTTTCATTTATATGTATTAATGATGAGGACCTTCCATGTTTATATATGAACTTGA	477	
QY	292	CTGGGCCAGTACACACCGCTGGCGGCGCTCACATCTCTGGAAACGATCGCCCGCGCT	351	
Db	478	CTCGACACATTTTCATCGGTGAGATGTGTATATATGAGAAAGTGTGCCCCGTTGTTT	537	
QY	352	AAAGGTGGCGCTATGCCATCTGCATGATCGACATCTAATGAGGCACTGACTACAAACAG	411	
Db	538	CGAGAAATCGGTTTACGGTATCTGCTGTATTTTGCAGCTTCATAGGCATTTTCTATATGCG	597	
QY	412	ATCATCGGATGGCGCGGTATTACTGATCGCTTCTCTCGCGCTAT---AAACTCTGG	468	
Db	598	ATCATCGGTCAAGCGCTATTTTGGCTATTTGTTTACCTTTCAAAATTTGGGATTCGGA	657	
QY	469	CTGCCATGACACAGCTGGGCAAGAGTGAACACACGCGCGTGGACGCGG-----	519	
Db	658	GTTCCGTGGCGTATGTGGCAATCCGTGGAATPACACGAGATGCTCAGATBACCTCAAC	717	
QY	520	GTCACCTCACCTCAGACTAATCTTAATCTTCTTACACCGCGGCAAGAGTCTTCGACAGT	579	
Db	718	GTCACAAATATCTAGAAATGGGACACACATTTGACCACTCGCTCAGAGAAATATTTATATAC	777	
QY	580	AATGATTATGAGCAGCACAGTCTAAGCGCGCTGATGATGACATGAGGCGCGATCAAGCGCTCG	639	
Db	778	AAAGCTCTTGAAGTTCAAAATAACACAGAAATCTGATGATCTTGGAGGTATAAAACTTCA	837	
QY	640	CTGGCTCTGTGTGTTCGGGGTCTTTGTCTTCGCTACTTCTCTTGTGAAAGAGTGC	699	
Db	838	ATGGCAGTGTCTACTACTGCTGATATTTAATAGTTTACTTTGACTCTTTGGAAGAGGTCCA	897	
QY	700	AGGATGCTGGCAAGGTGGTGGGTGACAGCTCGGGCCGCTAGCTGGTGTGCTGATTT	759	
Db	898	CAGTCGTGTGGAATAATGTTTGGGTGACTGCAACAGCTCCATATATATTTCTAAGATAT	957	
QY	760	CTGCTGGCAGAGCGCTACGCTTCTCAGAGCAGGAGGCGATACGCTACTACCTTACC	819	
Db	958	CTCTTATACGTGACCTCTCTTCCTGAGCAAGAAATGTCCTATTTATATATGACA	1011	
QY	820	CCAGAGTGGCAAAATTGCAAAACTCTAAGGTATGAGTGAACGCGGATCCCGAGATTTTC	879	



















QY	704	GTGCTGGCAAGGTCGTGTGGGTGACACACTCTGGCCCCGTCACGTGTGCTCTGATCTTCG	763
Db	708	CCACAGGCAAGAGTGTGTACTTACACGGCCACATTTCTTACCTTCATGATCTGTGGTCTGT	767
QY	764	TGGCGAGAGGCGTTCACGCTTCCAGGACGCAGCGAGGCAATACGCTACTACTTACCCAC	823
Db	768	TAATTCGAGGGGTACGTTGGCTGGGGCACCACCGAATTCAGTTTACTCTGACCCAA	827
QY	824	AGTGGCACAAATTCGAAACTCTAAGGTATGATGTGACGGCGCATCCACAGATTTCTTCT	883
Db	828	ACCTCAGCGCTCTGTGGATCCCGAGGTGTGATGATGATGACAGGCACCCACATATTTCTT	887
QY	884	CGCTGGGTCCGGGTGGGAACCTTACTGGCGGCTCTCAGCTCAACACAGTTCAACAA	943
Db	888	CTTTCGCCATCTGTCTTGGGTGCTGACAGCCCTGGGACACTACACAACTACCAACA	947
QY	944	ACTGCTACAGGAGCGGCTCATCATCTTCTTATCAACTGCTTACGACGCTCTTCTG	1003
Db	948	ACTGCTACAGGAGCTGATGAGCCCTCTGCTTCCCTCAACACGCGGACAGCATGTTGGCCG	1007
QY	1004	GTTTCGTCTATTTCTCGGTTTGGGGGTACATGTGCGCACGTTCAAGAACAGATGAGG	1063
Db	1008	GCTTGGCATCTTCATCTTCATCTGTGGGCTTCATGTCTCAGGACAGGGGCTCCCATTTCTG	1067
QY	1064	AGTTGGCTCTCGAAGGCCCTGAGACTGTGTTCATCTGTACCCGAGCCATGCGCACCA	1123
Db	1068	AGGTGGCCAGATCAGAGCCCTGGCTGTGCTTTCATCGCTTACCCGGGCGTGTGTATGC	1127
QY	1124	TGACCGGCTCCGTGTTCTGGGCGCATCATCTTCTCTCATAGCTTATACCTTGGGACTTG	1183
Db	1128	TGCCCTTCTCCCTCTCTGTGGGCGCTGCTGTTCTTCTTCAAGTGTGCTCTCTCGGAGCTG	1187
QY	1184	ACACTACTTTTGGAGGTCTTGAGGCACTACACACGGGCTCTTGGAGCATATCTCGAG	1243
Db	1188	ATACCAAGTTTGTGTGTGTAGAAAGCTTGTCAGACGGCTGTGAGACATGTACCTCAG	1247
QY	1244	TGTTAGGCA 1252	
Db	1248	TGTTCCGA 1256	
RESULT 14			
US-10-216-441-1			
: Sequence 1, Application US/10216441			
: Publication No. US20020192762A1			
: GENERAL INFORMATION:			
: APPLICANT: CONG, Fangcheng et al			
: TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,			
: TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,			
: FILE REFERENCE: CLO01191CON			
: CURRENT APPLICATION NUMBER: US/10/216,441			
: PRIOR FILING DATE: 2002-08-12			
: PRIOR APPLICATION NUMBER: 09/818,656			
: NUMBER OF SEQ ID NOS: 4			
: SOFTWARE: FastSeq for Windows Version 4.0			
: SEQ ID NO 1			
: LENGTH: 1798			
: TYPE: DNA			
: ORGANISM: Homo sapiens			
: US-10-216-441-1			

Query Match	18.8%;	Score 331.4;	DB 15;	Length 1798;
Best Local Similarity.	55.48;	Pred. No. 6.1e-92;		
Matches 637;	Conservative 0;	Mismatches 512;	Indels 0;	Gaps 0

QY 104 CGCGCACCCGGAACCTCTGGCGGAAGAAGCCAGAACTTCTGCTGGCGGTGTGTGGCAATTCG 163  
 108 CCTCGGACCGGGGGGCACTCGAACAACAGATGAGACTTGTCTGCTGCAGTGGCTGGGGAGA 167  
 QY 164 CAGTGGATCTTGGTAACTGTGTGGCAGTTCCCTACATCTGTTACCAAGATGAGAGCGGTG 223

Db	168	ICATTGGCTTAGGCACAGCTGTGAGAGTTTCCCTATCTCTGGTACACAAAATGGGGAGGTG	227
QY	224	CGTTCCTGATCCCGGTAAGCTGTTATGCTGTGTTGGGGGCGTGCCTGTTCTTCTGG	283
Db	228	CCCTTCATCCCGCTAACCTCGTCTTCTTACCTGTGAGCAATTCCTGCTCTCTTCTGG	287
QY	284	AACGTGGCGTGGGGCAGTACCAACCGCTGGCGTGCCTCACTCTGTGGAACGGAATCTGCG	343
Db	288	AGACAGCACTAGGCCAGTACATACCAAGGAGGGGTGCACAGCTGGAGGAGATCTGCG	347
QY	344	CCGACCTTTAAAGGTGTGCGCTATGTGCACTCTGCATATGAGATATGAGATGGGCACTG	403
Db	348	CCATCTTTGAGGGCAATTTGGCTATGGCTCCCAAGATGATGTCACTCTCTCAACGCTACT	407
QY	404	ACACAGCATCATCGGATGGCGGTGTATTAACCTGATCGCTCTCTCGGCTATTAACCT	463
Db	408	ACATCATTTGTGTGGCTGTGGCCCTGTCTCTACTCTTCAAGCAGTTCAACATTCGACTGC	467
QY	464	CTGTCTGCCATGGACACAGCTGGCAGCAACGAAGTGGAAACAGCCGCTGTGCACGGCGTCA	523
Db	468	CTGTGGGGGGCTGCTACCATGAGTGGAAACAGAAACACTGTATGGAGTTCAGGAAGACCA	527
QY	524	CCTCAGCTCAGACTAATCCTAATCCTTCTACACCGGCGAGAGTGTCTTCAAGCAATATG	583
Db	528	ACGGCTCCCTGAATGTGACTCTGTAGAAATGCCACTCTCTCTCATCGATTTCTGGAGC	587
QY	584	TATTGGACAGCACAAAGTCTAACGGCCCTGAGATGACATGGGGCGATCAAGCCCTGCTGG	643
Db	588	GAGCGGGTCTTGAAGATCTCTGATGGAGATCCACACCTGGGGGCGCTGGCGTGGAGCTGG	647
QY	644	CTCTGTGTGTGTGGGGCTTGTGTCTCTGTACTTCTCTTGTGGAAAGGATCAGGA	703
Db	648	CTCTGTGTCTCTGTGGCGTGGGTGATCTGTCTTCTGTCACTTGTGCAATCTGGAAGGGGTGAAGT	707
QY	704	GTCGTGGCAAGGTGTGTGGGTGAGCAAGCTCTGGCCCGGATGCTGTGCTGATTTCTGC	763
Db	708	CCACAGGCAAGGTGTGTACTTACAGCGGCCACAACTTTCCTTACTCACTGCTGTGTCTGT	767
QY	764	TGGCGAGAGCGGCTCAGCTTCCAGGAGCGAGCGAGGGGATACGCTACTACCTTACCCGAG	823
Db	768	TAAATTCGAGGGGTGACGTTTGTCTCTGTGGGAGCCCAAGAAATTCAGTTTACGTATCCCA	827
QY	824	AGTGGCACAATAATGCAAAATCTTAAGATATGATTTGACGGGCATTCAGATTTTCTTCT	883
Db	828	ACCTCAGCGATCTGTGGGATCCCGAGGTGTGATGGATGCAAGGACCCAGATATTTCTCT	887
QY	884	CGCTGGGTCCGGGTTGCGAAACCTACAGCGGCTCTGCAGCTACACAAAGTTCAACACCA	943
Db	888	CCTTTGCATCTGTCTTTGGGTGCTTACAGAGCCCTGGCGAGCTACAAAGTACCAACACA	947
QY	944	ACTGCTACAGGAGCGGCTCATCACTTCTTATCAACTGTCTTGAACCAAGCTCTCTTGTG	1003
Db	948	ACTGCTACAGGAGATGATCGGCCCTCTGTGCTCTCAACAGCGGCACACGCTTTGTGGCG	1007
QY	1004	GTTTCGTATTTTCTCGGTTTGTGGGTACATGTGGCAGCTTTAGAAACAAGACATTCGAG	1063
Db	1008	GCTTTGCATCTTCTCCATCCCGGGCTTCATGTCTCAGAGAGAGGGGGTGCCTATTTCTG	1067
QY	1064	AGTTGGGCTCGAAGGCCCTGGACATCGTGTTATGCTGATCCGAGGCAATTCGGCACCA	1122
Db	1068	AGGTGGCCGAGTCAAGGCCCTGGCGCTTGTATATGCTTATCCCGGGGCTGTGTGATATGC	1122
QY	1124	TGACGGGCTCGTGTCTGTGGCGCATCTTCTCTCATATGCTTATTAACCTCGGGAGCTTG	1183
Db	1128	TGCCCTTCTCTCTCTGTGGGGCTGTCTTCTTCTCATGTGTCTTCTCTCGGGAGCTGG	1187
QY	1184	ACAGTACTTTTGAAGCTTTGAGGCAAGTACACAGCGCTTTTGGCAGCAATATCTCGAG	1243
Db	1188	ATAGCAATTTGTGTGTAGAAAGCCTGTGTACAGCGCTGGTGTGACATGTACCTTCAG	1247
QY	1244	TGTTAGGCA 1252	
Db	1248	TGTTCCGCA 1256	

27	128	TGTTAGCA	1252
Db	1188	ATAGCAGCTTGTGTGTAGAAACCGTGTCACGCCTGGTGACATGTACCCTCACG	1247
QY	1244	TGTTAGCA	1252
Db	1248	TGTTCCGA	1256





